PMA1 - FGB PRESSURIZATION

PRESSURIZATION INITIALIZATION

- 1. MCC-H verify Node 1 CABIN PRESS = $\frac{750-760 \text{ mmHg}(14.5-14.7 \text{ psia})}{1}$
- 2. MCC-H notify MCC-M "Proceed with PMA 1 Pressurization"
- 3. EPK1, EPK2 command (two) Enable
- 4. Verify EPK1, EPK2 (two) Enabled
- 5. cmd EPK2 Open
- 6. Verify pressure of FGB PMA1 PRESS 1,2 (two) ~0 (vacuum condition)
- 7. Record time and pressures

 DMT___:__:__(dd:hh:mm)

 FGB PMA1 PRESS 1 _____,

 FGB PMA1 PRESS 2
- 8. **MCC-M** notify **MCC-H** on initiation of PMA1 pressurization.
- 9. **MCC-H** notify shuttle on initiation of PMA1 pressurization.
- 10. cmd EPK1 Open
- 11. **MCC-M** notify **MCC-H** pressurization in progress.

PRESSURIZATION COMPLETION

- 12. **MCC-H** notify shuttle pressurization in progress.
- 13. Wait two orbits, then cmd EPK1 Close
- 14. **MCC-M** notify **MCC-H** on the completion of pressurization.
- 15. **MCC-H** notify shuttle on the completion of pressurization.
- 16. Wait TBD minutes for PMA1 stabilization of temperature gradients.

PMA 1/FGB INTERFACE LEAK CHECK

17. Record time and pressures and calculate initial average:

DMT::(dd:hh:m	າm)	
FGB PMA1 PRESS 1	(mmHg)	
FGB PMA1 PRESS 2	(mmHg)	
Initial average (PRESS 1 + PR	RESS 2)/2 =	(mmHa)

18. **MCC-M** notify **MCC-H** on the initiation of the PMA1 leak check. Report time, pressures and initial pressure as recorded in step 19 and subsequent data acquisition opportunities to **MCC-H**.

LEA	K CHECK COMPLETION			
	Wait until daily orbit TBD, at data acquisition opportunity, then record time and pressures and calculate final average			
	DMT::(dd:hh:mm) FGB PMA1 PRESS 1(mmHg) FGB PMA1 PRESS 2(mmHg)			
	Final average (PRESS 1 + PRESS 2)/2 =(mmHg)			
20	Leak check pressure decay: Pressure decrease =(mmHg) Initial Average - Final Average =(mmHg)			
21.	Make a plot and perform an analysis of automatically recorded telemetry data and define the pressure trend.			
22.	cmd EPK2 - Close cmd EPK1, EPK2 command (two) - Disabled Verify EPK1, EPK2 command (two) - Disabled			
23.	Report to MCC-H the results of the pressure trend analysis as recorded in step 21.			
24.	If pressure decrease is < 7 (TBV) mm Hg - PMA 1/FGB interface seal is tight			
	MCC-M notify MCC-H valid seal integrity demonstrated.			
	MCC-H notify shuttle on the good leak check.			
25.	If pressure decrease is > 7 (TBV) mm Hg - suspect leak conditions			
	MCC-M notify MCC-H invalid seal integrity			
	MCC-H notify shuttle invalid leak check.			
	$\sqrt{\text{MCC-H}}$ for further actions.			
MCC-M follow instructions from MCC-H.				

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* CONFIGURE FGB EPK ASSEMBLY FOR DEMATING	*
* 26. MCC-M notify MCC-H "FGB configured for demating."	*
*	*
* CONFIGURE TC/WC FOR SECOND REPRESS	*
* 27. MCC-M contact MCC-H "FGB TC configured for second repress."	*
*	*
* Report TC total pressure to MCC-H.	*
*	*
* 28. MCC-H notify MCC-M to repeat steps 1 23.	*
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